

Full name of sole or first inventor: Dan.

Inventor's signature:

Residence: 15050 Stillfield Place, Centreville, Virginia 22020

Post Office Address: Same

Date:

Citizenship: USA

Full name of second joint inventor: Yi Li

Inventor's signature:

Residence: 16125 Howard Landing Drive, Gaithersburg, Maryland 20878

Post Office Address: Same

Date:

Citizenship: China

Full name of third joint inventor: Patrick J. Dillon

Inventor's signature:

Residence: 7508 Boxberry Terrace, Gaithersburg, Maryland 20879

Post Office Address: Same

Date:

Citizenship: USA

Docket No.: 325800-447

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**COLON SPECIFIC GENE AND PROTEIN**

the specification of which [ ] is attached hereto or [X] was filed on June 6, 1995 as Application Serial No. 08/468,413 and was amended on \_\_\_\_\_ (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed. Prior Foreign Application(s):

Priority Claimed  
Yes No

\_\_\_\_\_  
(Number) (Country) (Day/Month/Year Filed) ☐ ☐

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

\_\_\_\_\_  
(Application Serial No.) (Filing Date) (Status - patented, pending, abandoned)

\_\_\_\_\_  
(Application Serial No.) (Filing Date) (Status - patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: John N. Bain (Reg. No. 18,651); John G. Gilfillan, III (Reg. No. 22,746); Elliot M. Olstein (Reg. No. 24,025); Raymond J. Lillie (Reg. No. 31,778); Charles J. Herron (Reg. No. 28,019); William Squire (Reg. No. 25,378); and Gregory Ferraro (Reg. No. 36,134) of Carella, Byrne, Bain, Gilfillan, Cecchi, Stewart & Olstein; Robert H. Benson (Reg. No. 30,446) of Human Genome Sciences, Inc., 9410 Key West Ave, Rockville, Maryland 20850-3338. Address correspondence and telephone calls to Gregory D. Ferraro c/o Carella, Byrne, Bain, Gilfillan, Cecchi, Stewart & Olstein, 6 Becker Farm Road, Roseland, NJ 07068 - (201) 994-1700.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Daniel Soppet, Yi Li, Patrick J. Dillon

Filed: Concurrently herewith

For: Colon Specific Gene and Protein

Attorney Docket No.: PF178D2

ASSOCIATE POWER OF ATTORNEY

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

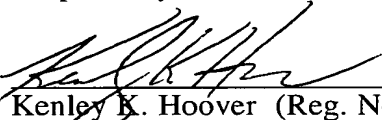
The undersigned attorney of record hereby appoints the following as associate attorneys/agents:

Jonathan L. Klein (Reg. No. 41,119)  
Joseph J. Kenny (Reg. No. 43,710)  
Michelle S. Marks (Reg. No. 41,971)  
Michele M. Wales (Reg. No. 43,975)  
Human Genome Sciences, Inc.  
9410 Key West Avenue  
Rockville, Maryland 20850  
301-309-8504

to prosecute the above-captioned application and to transact all business in the U.S. Patent and Trademark Office connected therewith.

Respectfully submitted

Dated: March 14, 2000

  
Kenley K. Hoover (Reg. No. 40,302)  
Attorney for Applicants

Human Genome Sciences, Inc.  
9410 Key West Avenue  
Rockville, MD 20850  
Telephone: (301) 309-8504

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Daniel Soppet, Yi Li, Patrick J. Dillon

Filed: Concurrently herewith

For: Colon Specific Gene and Protein

Attorney Docket No.: PF178D2

**SUBMISSION OF POWER OF ATTORNEY**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

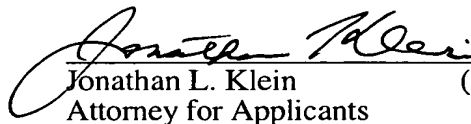
Enclosed herewith is a copy of Power of Attorney by Assignee of Entire Interest ,  
Revocation of Prior Power of Attorney ("Power of Attorney"), submitted in connection with prior  
Application No. 09/162,508, filed September 29, 1998. Also enclosed is a copy of the recorded  
Assignment document referred to in the Power of Attorney along with the Notice of Recordation  
of said Assignment.

Please address all correspondence in connection with this application to:

**Human Genome Sciences, Inc.**  
**9410 Key West Avenue**  
**Rockville, Maryland 20850**  
**Tel: 301-309-8504**  
**Fax: 301-309-8439**

Respectfully submitted,

Dated: MARCH 14, 2000

  
Jonathan L. Klein (Reg. No. 41,119)  
Attorney for Applicants

**Human Genome Sciences, Inc.**  
9410 Key West Avenue  
Rockville, MD 20850  
(301) 251-6015 (telephone)

Enclosure

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application of: Soppet et al.

Application Number: to be assigned

Group Art Unit: to be assigned

Filed: herewith

Examiner: to be assigned

Title: Colon Specific Gene and Protein

Attny. Docket No. PF178D1

**POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST**  
**Revocation of Prior Power of Attorney**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Human Genome Sciences, Inc., organized and existing under the laws of the State of Delaware, having its principal place of business at 9410 Key West Avenue, Rockville, Maryland 20850, is assignee of record of the entire right, title and interest for the above-identified application by virtue of an assignment filed in the U.S. Patent and Trademark Office on February 12, 1996, at Reel 7819, Frame 0923.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The assignee hereby revokes all powers of attorney heretofore given in the above-captioned application and appoints as its attorneys James H. Davis, Registration No. 40,582; A. Anders Brookes, Registration No. 36, 373; and Kenley K. Hoover, Registration No. 40,302, with full power of substitution, association, and revocation, to prosecute said application and to transact all business in the United States Patent and Trademark Office connected therewith.

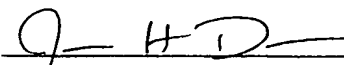
The assignee also requests that the correspondence address be changed to the following:

James H. Davis, Esq.  
Human Genome Sciences, Inc.  
9410 Key West Avenue  
Rockville, Maryland 20850  
Phone: 301-309-8504  
Fax: 301-309-8439

The undersigned, whose title is supplied below, is empowered to sign this document on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application captioned above or of any patent issuing thereon.

On behalf of Human Genome Sciences, Inc.

For: Human Genome Sciences, Inc  
Signature:   
By: James H. Davis, Ph.D.  
Title: Senior Vice President and General Counsel  
Date: September 29, 1998

KKH/ur



PTAS

CARELLA, BYRNE, BAIN, GILFILLAN, CECCHI,  
STEWART & OLSTEIN  
GREGORY D. FERRARO  
6 BECKER FARM ROAD  
ROSELAND, NJ 07068



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RECEIVED

070563100  
Jc690 U.S. PRO

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03/14/00

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

DOCUMENT  
HQS PATENT DEPT.

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/12/1996



REEL/FRAME: 7819/0923  
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
SOPPET, DANIEL R.

DOC DATE: 02/05/1996

ASSIGNOR:  
LI, YI

DOC DATE: 02/05/1996

ASSIGNOR:  
DILLON, PATRICK J.

DOC DATE: 02/05/1996

ASSIGNEE:  
HUMAN GENOME SCIENCES, INC.  
9410 KEY WEST AVENUE  
ROCKVILLE, MARYLAND 20850

SERIAL NUMBER: 08468413  
PATENT NUMBER:

FILING DATE: 06/06/1995  
ISSUE DATE:

DATE OF ISSUE

DATE: 5/23/96

24. DLG

## ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Daniel R. Soppet of 15050 Stillfield Place, Centreville, Virginia 22020; Yi Li of 16125 Howard Landing Drive, Gaithersburg, Maryland 20878 and Patrick J. Dillon of 7508 Boseberry Terrace, Gaithersburg, Maryland 10878 hereby sell, assign and transfer to HUMAN GENOME SCIENCES, INC. ("assignee") having a place of business at 9410 Key West Avenue, Rockville, Maryland 20850-3338 its successors, assigns and legal representatives, their entire right, title and interest for the United States and all other countries, in and to the improvements(s) known as:

### COLON SPECIFIC GENE AND PROTEIN

for which application(s) for United States Letters Patent has (have) been executed by the undersigned on \_\_\_\_\_ also known as United States Application Serial No. 08/468,413, filed June 6, 1995, and is entitled:

### COLON SPECIFIC GENE AND PROTEIN

and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all other countries on any of said improvements, and in and to all original and reissued patents which have been or shall be issued in the United States and all other countries on said improvements (hereinafter collectively, the "Patent Rights").

The undersigned further agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and, when requested, without charge to but at the expense of Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on all such improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives all facts known to the undersigned relating to said improvements and the history thereof; and do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patent and all patents on said improvements in Assignee, its successors, assigns and representatives.

The undersigned hereby represent and warrant to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or agreement affecting the rights and property herein conveyed has been made to others by the undersigned and that full right to convey the same as expressed herein is possessed by the undersigned.

The undersigned hereby grant power to John N. Bain (Reg. No. 18,651); John G. Gilfillan, III (Reg. No. 22,746); Elliot M. Olstein (Reg. No. 24,025); Raymond J. Lillie (Reg. No. 31,778); Charles J. Herron (Reg. No. 28,019); William Squire (Reg. No. 25,378); Gregory D. Ferraro (Reg. No. 36,134); and Robert H. Benson (Reg. No. 30,446) to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.



Full name of sole or first inventor: Daniel R. Loppet

Inventor's signature: Daniel R. Loppet Date: 2/5/96

Residence: 15050 Stillfield Place, Centreville, Virginia 22020

Citizenship: USA

Post Office Address: Same

Full name of second joint inventor: Yi Li

Inventor's signature: Yi Li Date: 2/5/96

Residence: 16125 Howard Landing Drive, Gaithersburg, Maryland 20878

Citizenship: China

Post Office Address: Same

Full name of third joint inventor: Patrick J. Dillon

Inventor's signature: Patrick J. Dillon Date: 2/5/96

Residence: 7508 Boxberry Terrace, Gaithersburg, Maryland 20879

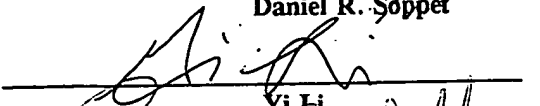
Citizenship: USA

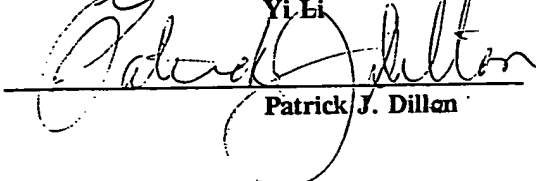
Post Office Address: Same

Docket No.: 325800-447

This Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature:  Date: 2/5/96  
Daniel R. Soppet

Inventor's Signature:  Date: 2/5/96  
Yi Li

Inventor's Signature:  Date: 2/5/96  
Patrick J. Dillon

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SEDLEY PYNE, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

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